

WHAT IS CLAIMED IS:

1. A digital camera, comprising:

an image sensor formed, in a light-receiving surface, with a plurality of first light-receiving elements and a plurality of second light-receiving elements;

5 a first exposurer for subjecting said first light-receiving elements to first exposure for a first period;

a second exposurer for subjecting said second light-receiving elements to second exposure for a second period;

10 an outputter for separately outputting, from said image sensor, a first charge produced in said first light-receiving elements due to the first exposure and a second charge produced in said second light-receiving elements due to the second exposure; and

a generator for generating a still image signal of one screen on the basis of said first charge and said second charge; wherein said first period is shorter than said second period and overlapped in time with said second period.

15 2. A digital camera according to claim 1, further comprising a first applier to apply a first charge read pulse to said first light-receiving elements, a second applier to apply a second charge read pulse to said second light-receiving elements, a third applier to apply a charge sweep-out pulse to said first light-receiving elements and said second light-receiving elements, and a shutter member to mechanically cut off incident light on said
20 light-receiving surface, wherein said first exposurer controls any two of said first applier, said third applier and said shutter member to carry out the first exposure while said second exposurer controls any two of said second applier, said third applier and said shutter member to carry out the second exposure.

25 3. A digital camera according to claim 2, wherein said first exposurer controls start and end time points of the first exposure by said third and first appliers and said second

exposer controls start and end time points of the second exposure by said third applier and said shutter member.

4. A digital camera according to claim 2, wherein said first exposer controls start and end time points of the first exposure by said first applier and said shutter member and
5 said second exposer controls start and end time points of the second exposure by said third applier and said shutter member.

5. A digital camera according to claim 1, further comprising a color filter arranged with a plurality of color elements covering said light-receiving surface, wherein the colors are assigned to both the first light-receiving elements and said second light-
10 receiving elements.

6. A digital camera according to claim 5, wherein said color filter comprises a plurality of color blocks including each of the colors, said first and second light-receiving elements being alternately arranged, in a predetermined number in each, in at least one of the vertical and horizontal directions, each of the color elements individually
15 corresponding to each of said first and second light-receiving elements, and the predetermined number being coincident with the number of color elements of the color block in a direction said first and second light-receiving elements are alternately arranged.

7. A digital camera according to claim 1, wherein said image sensor is an
20 interline-transfer schemed CCD imager formed with a plurality of vertical transfer registers in said light-receiving surface.